



Solving Cleanup Challenges Through Risk Reduction

Transportation – Key to EM Success

*Presented to the Transportation
External Coordination Working Group
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Office of Environmental
Management**



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

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EM PROGRAM–WHAT WE DO

- **EM's mission is the safe and successful cleanup of the Cold War legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research and includes:**
 - Over 80 million gallons of radioactive liquid waste - the volume equivalent of 121 Olympic-size swimming pools
 - More than two thousand tons of spent nuclear fuel - roughly equal to the weight of 1,175 Toyota Camrys
 - Tons of special nuclear material such as plutonium
 - In excess of one million cubic meters of radioactive solid waste - an amount that would fill a football field over a mile high
 - Hundreds of square miles of contaminated soil and groundwater
 - Thousands of industrial facilities, hundreds of radiological facilities to remediate
- **All of these activities involve either onsite or offsite transportation**
 - **Over the past 3 years, we have completed ~50,000 shipments of waste to offsite disposal facilities – both highway and rail**



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The EM Program is a Large, Complex Cleanup Effort

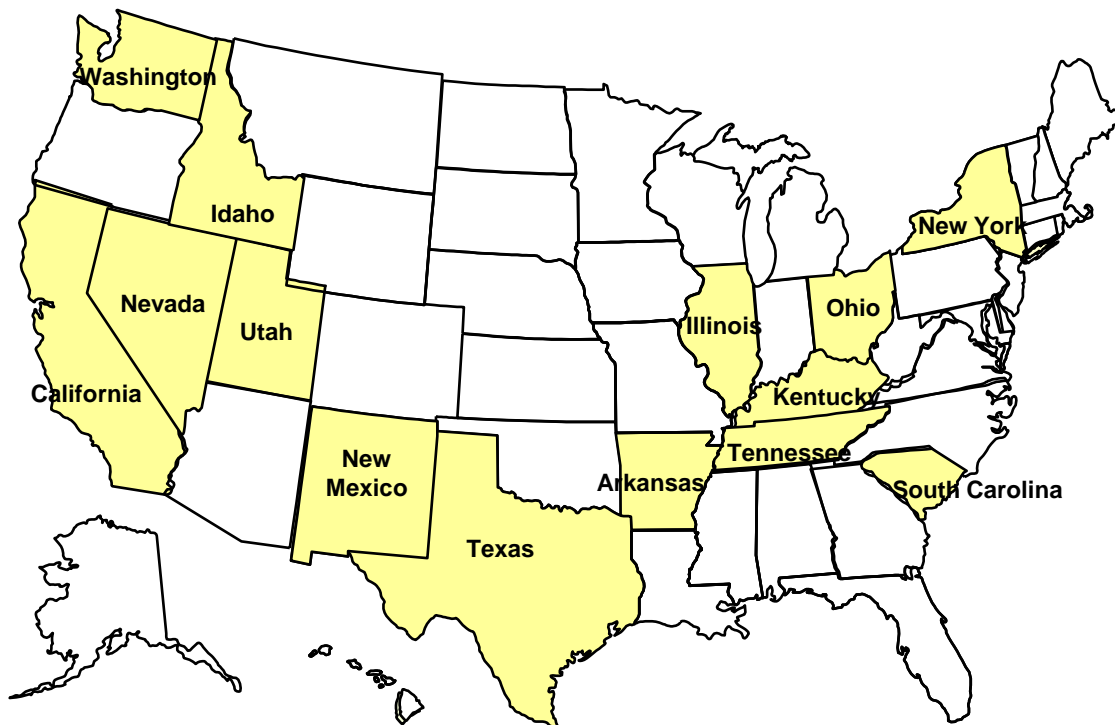
24 remaining **Sites**

14 **States**

~ 2,000,000 **Acres**

~ \$6.2B **Budget (FY-07)**

> 30,000 **Workforce (federal and contractor)**



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Rocky Flats National Wildlife Refuge

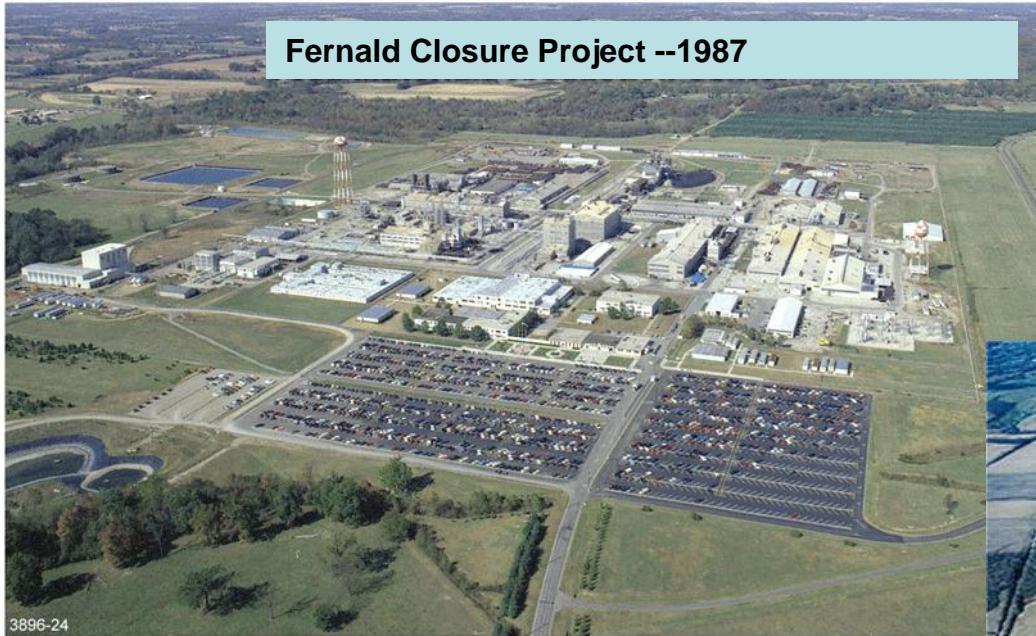


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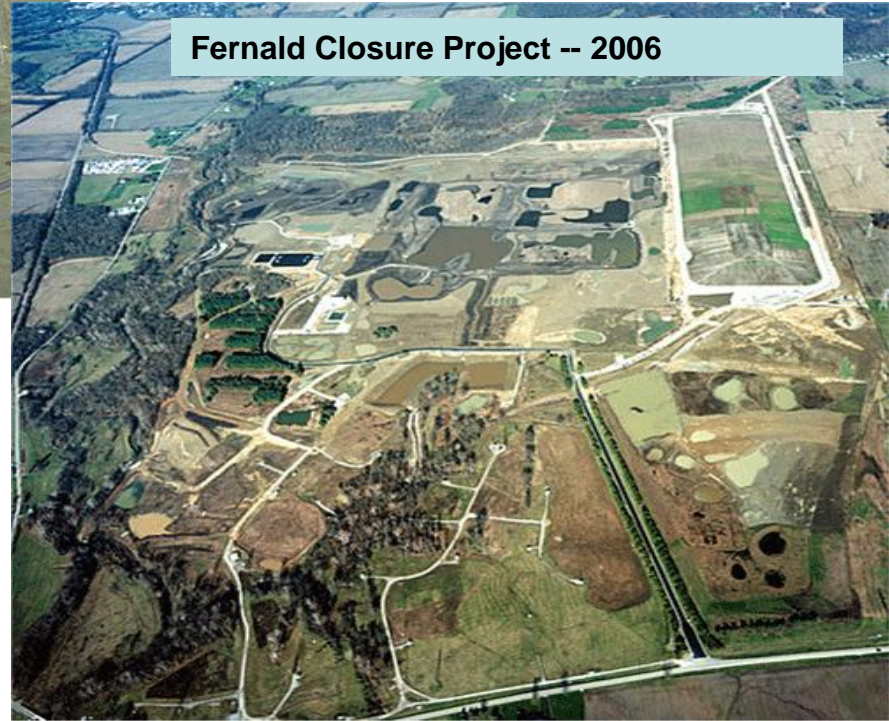
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Fernald Closure Project

Fernald Closure Project --1987



Fernald Closure Project -- 2006



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Miamisburg Closure Project



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Melton Valley Site



Completed September 30, 2006



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EM FRAMEWORK IMPLEMENTING THE DOE TRIBAL POLICY

- November 2005, EM committed to develop an EM Framework to implement the DOE Tribal Policy
- April 2006, Meeting with DOE and Tribal representatives
- Framework adopted by the Offices of Nuclear Energy and the National Nuclear Security Administration
- Framework in final stages of concurrence



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FY 2007 Transportation Update

- Completed 852 Transuranic shipments
 - 37 were remote-handled TRU waste
- Completed ~2,500 low-level waste shipments



RH-TRU Waste Shipment



TRU Waste Shipment in TRUPACT Container



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Upcoming Shipping Activities

- **Fast Flux Test Facility Closure Project – Sodium Bonded Fuel Shipments**
 - 11 shipments from Hanford to Idaho
 - Shipments planned to begin in Fall 2007
- **Spent Nuclear Fuel Transfer Project**
 - Planning underway to begin shipping spent nuclear fuel between the Savannah River Site and Idaho in 2009
 - On August 17, 2006, DOE approved the Enriched Uranium Disposition Project at SRS. This decision specified positioning aluminum-clad spent nuclear fuel at Savannah River Site in H-Area facilities.
 - Approximately 30 shipments per year for 10 years are planned



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EM Safety Priorities

- Safety is number one in all we do in EM
- Using only highly qualified carriers that have been evaluated under our Motor Carrier Evaluation Program
- Better tracking of transportation performance through data normalization.
- Identifying best practices and sharing them throughout the complex
- Standardization of waste containers and quality procurement.



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- DOE received the 2006 National TransCAER Chairman's Award
 - Secretary Bodman accepted the award on May 1, 2007
 - Awarded for DOE efforts under the Transportation Emergency Preparedness Program and the Commodity Flow Surveys



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Summary

- EM will continue focusing on safe, cost-effective prioritized risk reduction and environmental cleanup.
- EM is committed to conducting its packaging and transportation activities in a safe and compliant manner.



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